

FIG.1

FIG.2

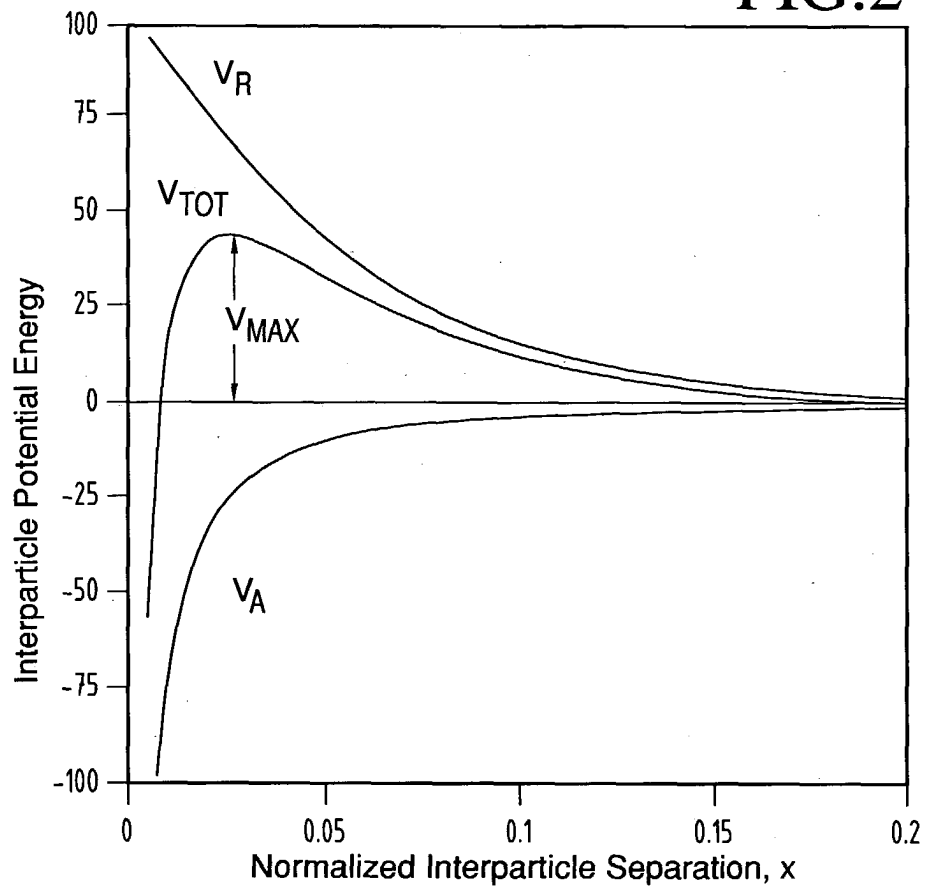


FIG.3

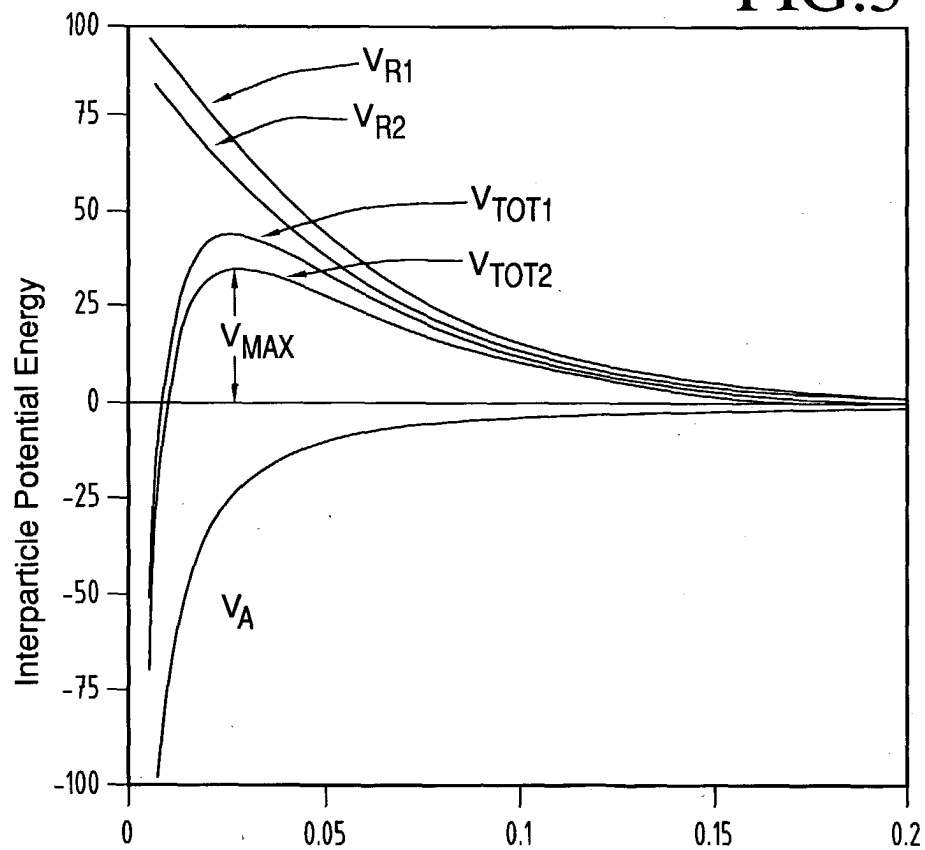


FIG.4A

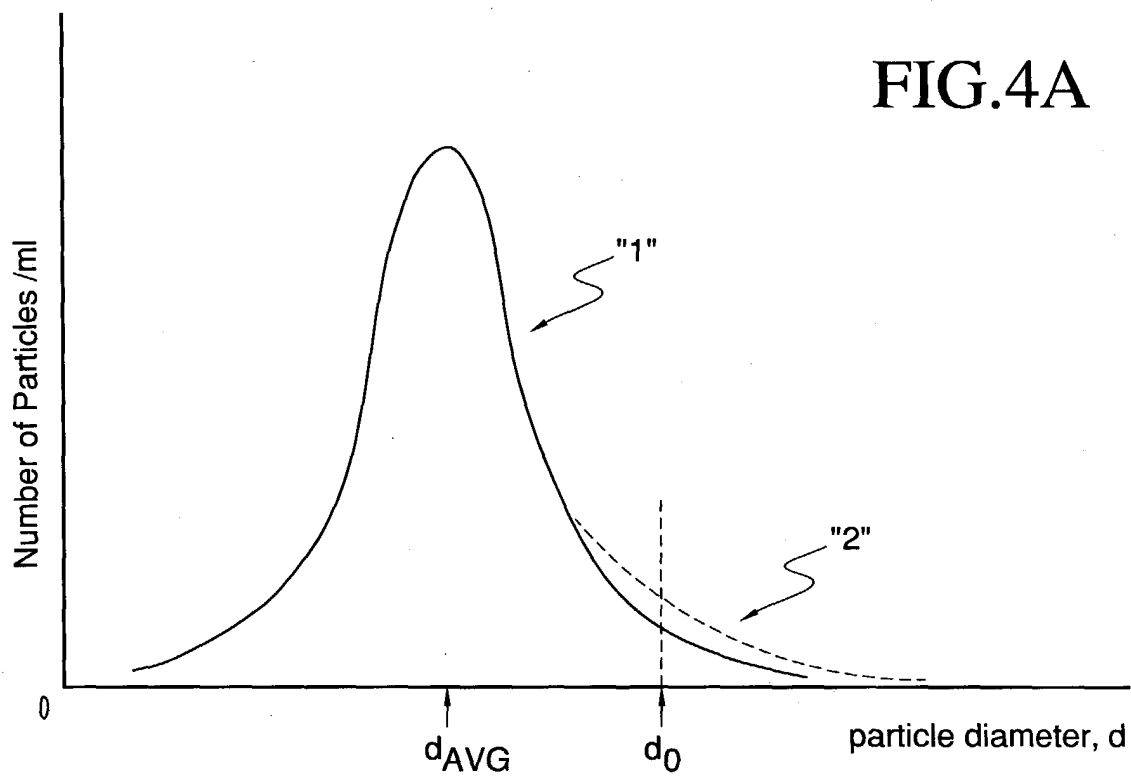
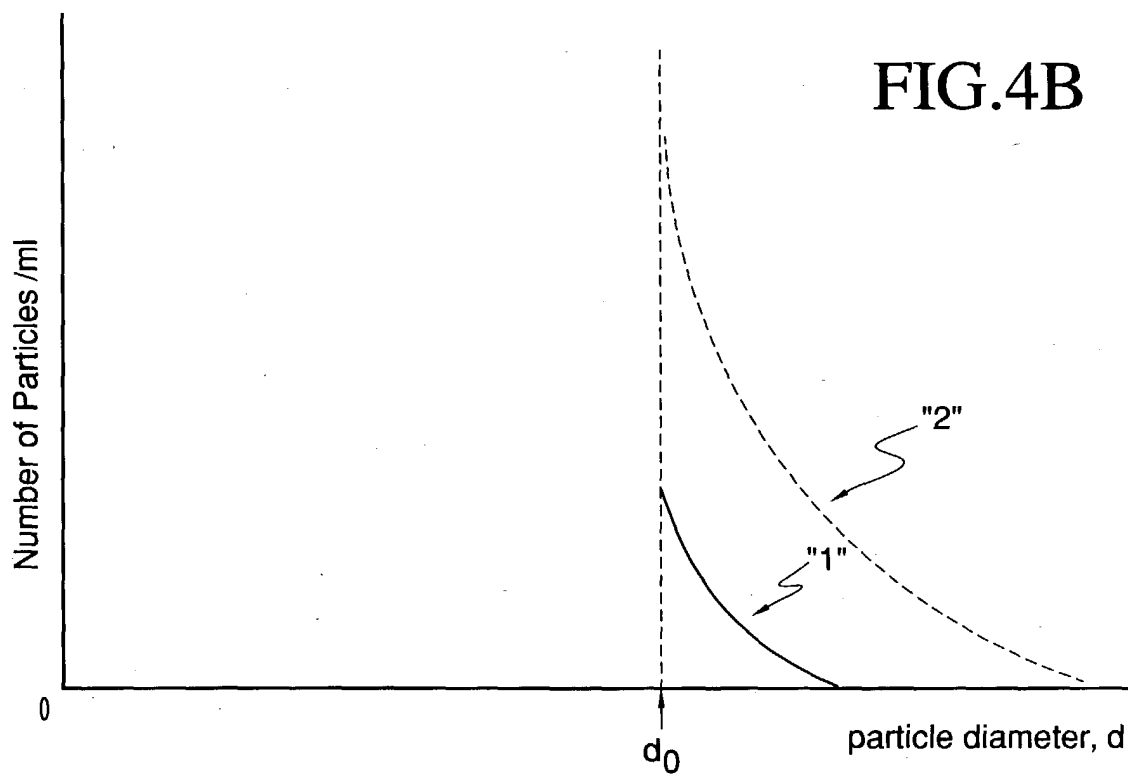


FIG.4B



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FIG.5

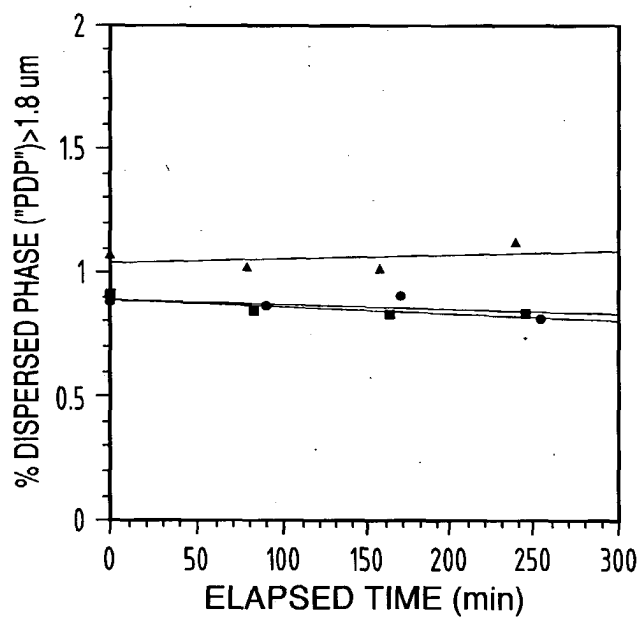


FIG.6

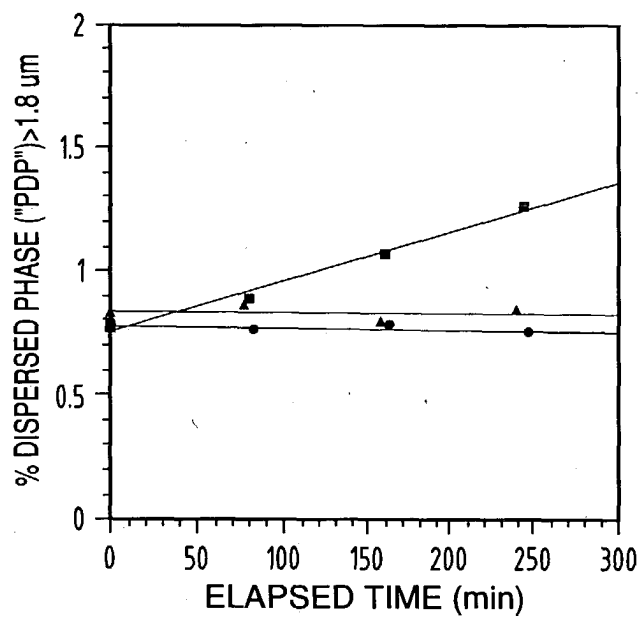
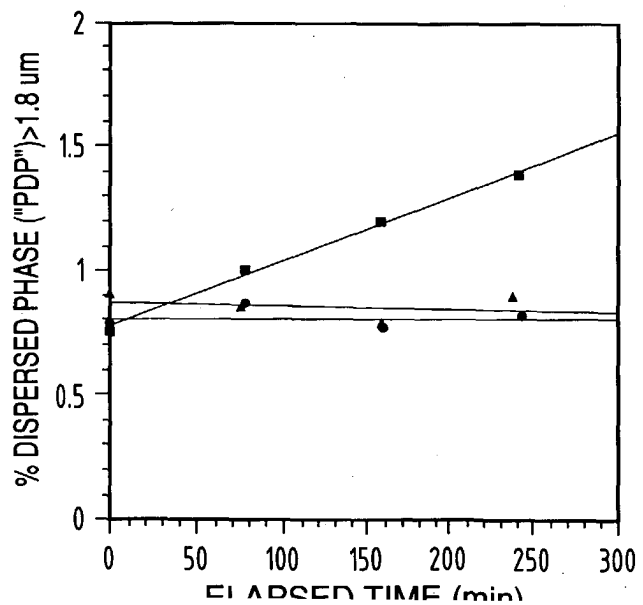


FIG.7



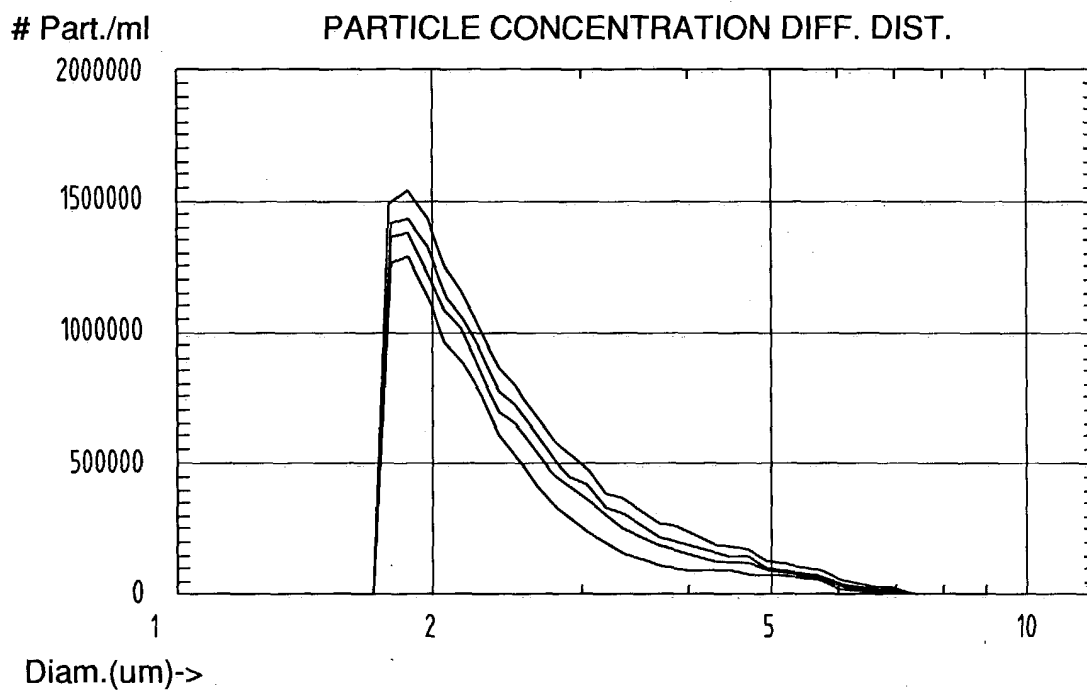


FIG.8

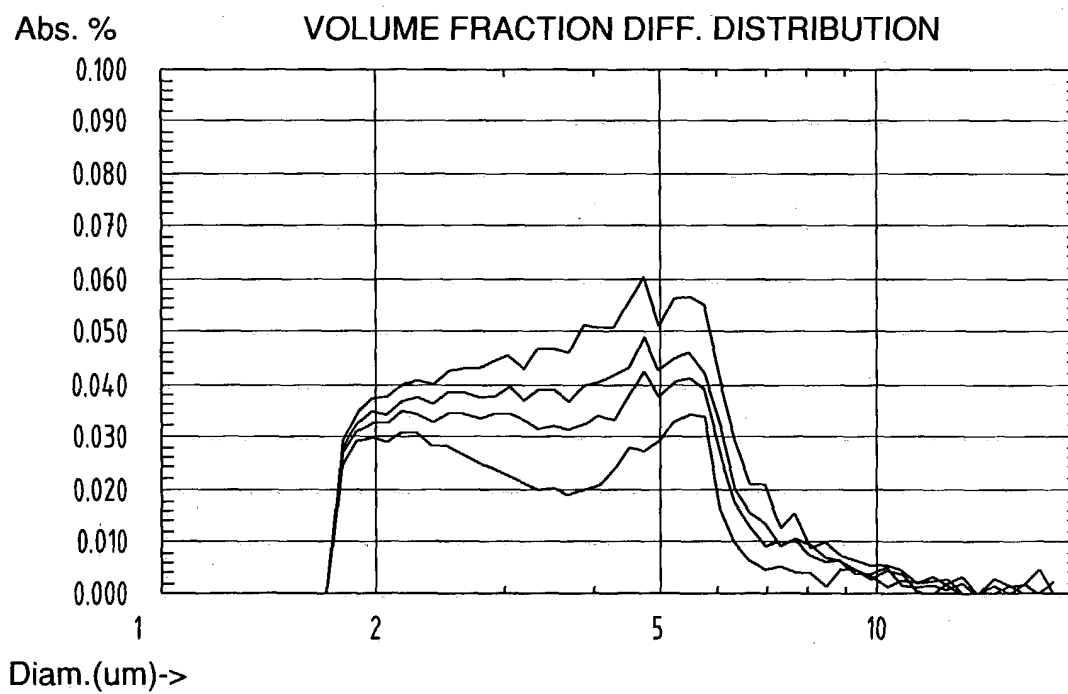


FIG.9

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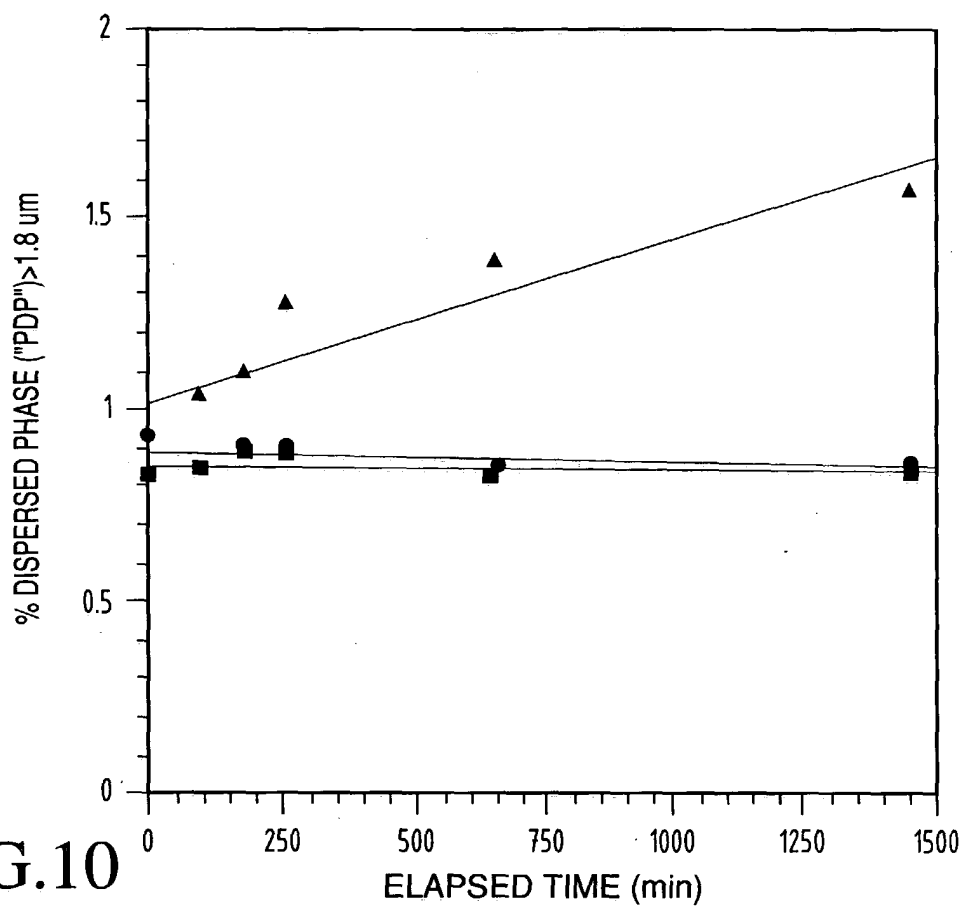


FIG. 10

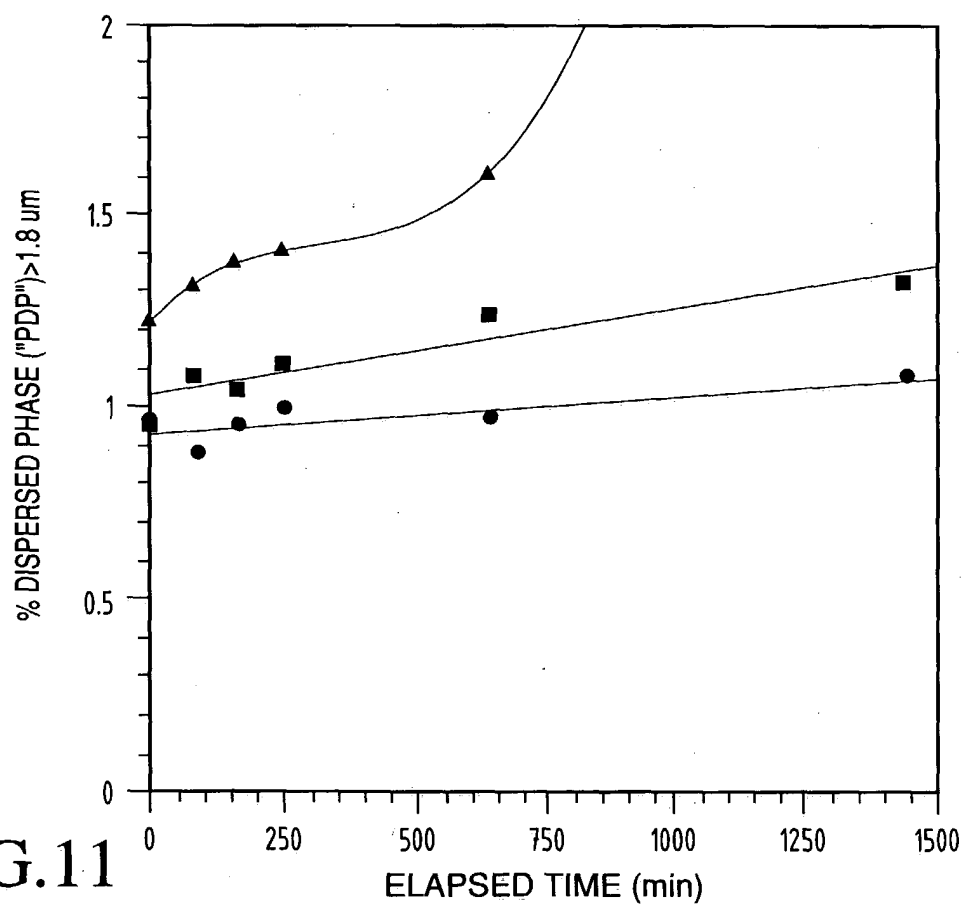


FIG. 11

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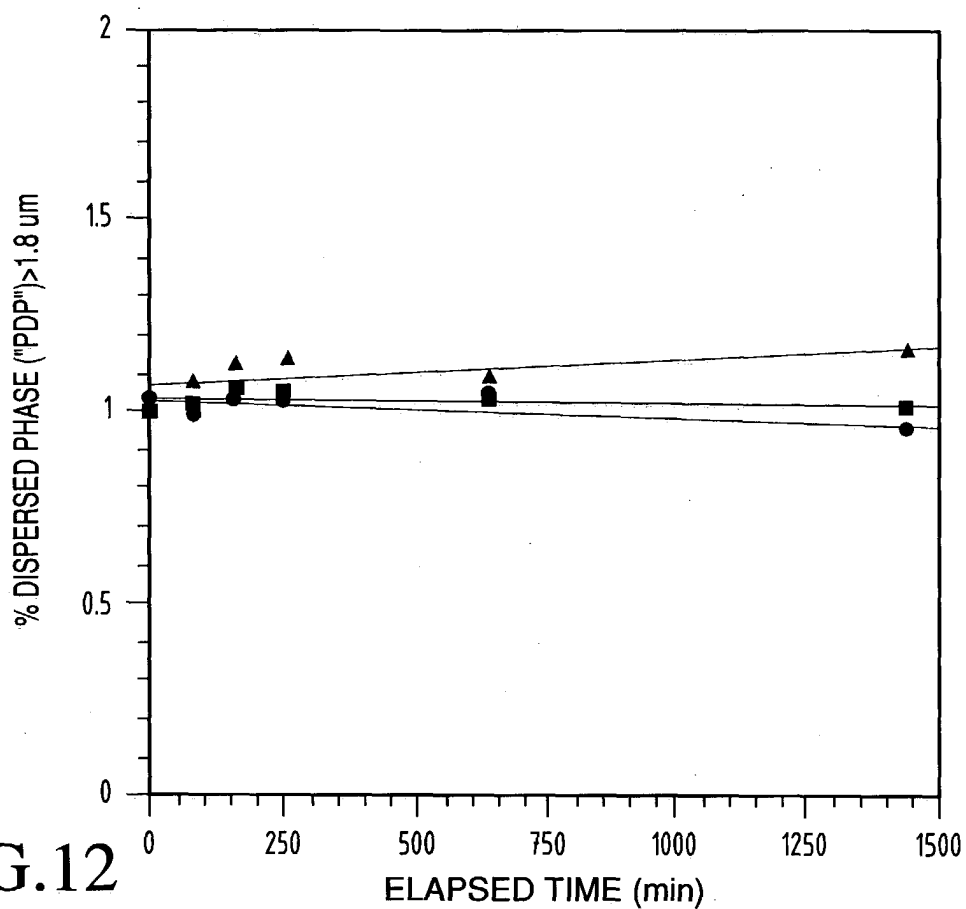


FIG. 12

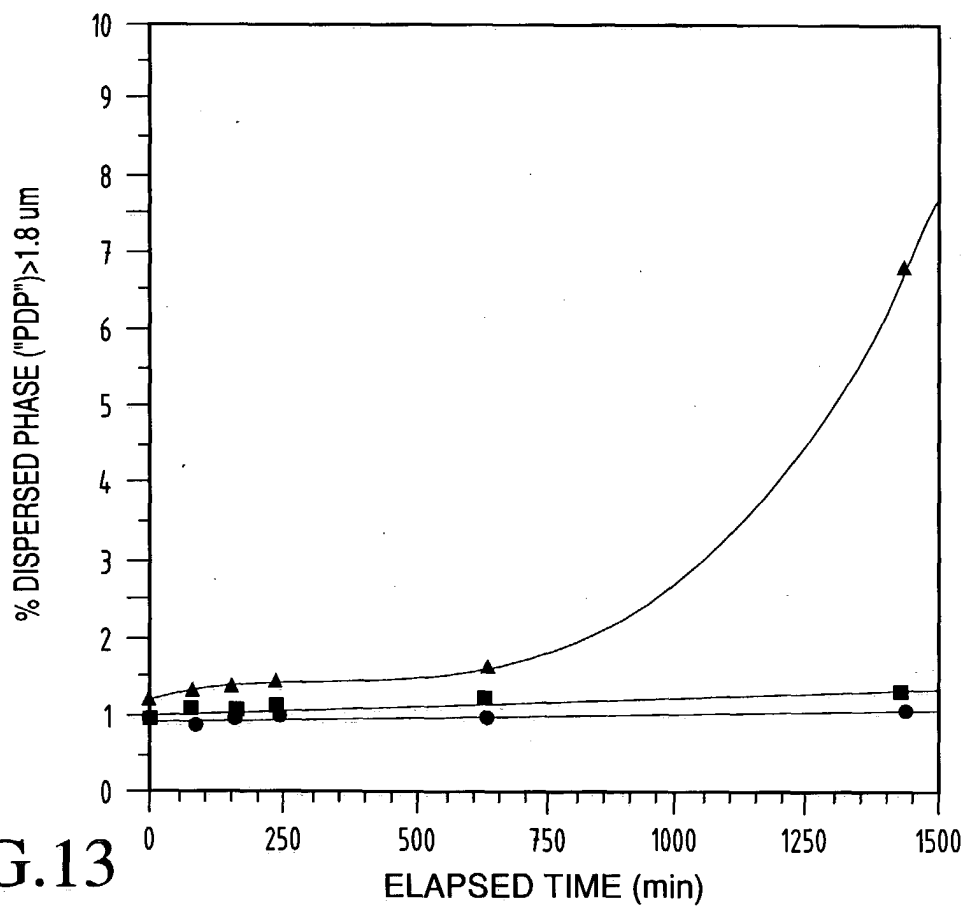


FIG. 13

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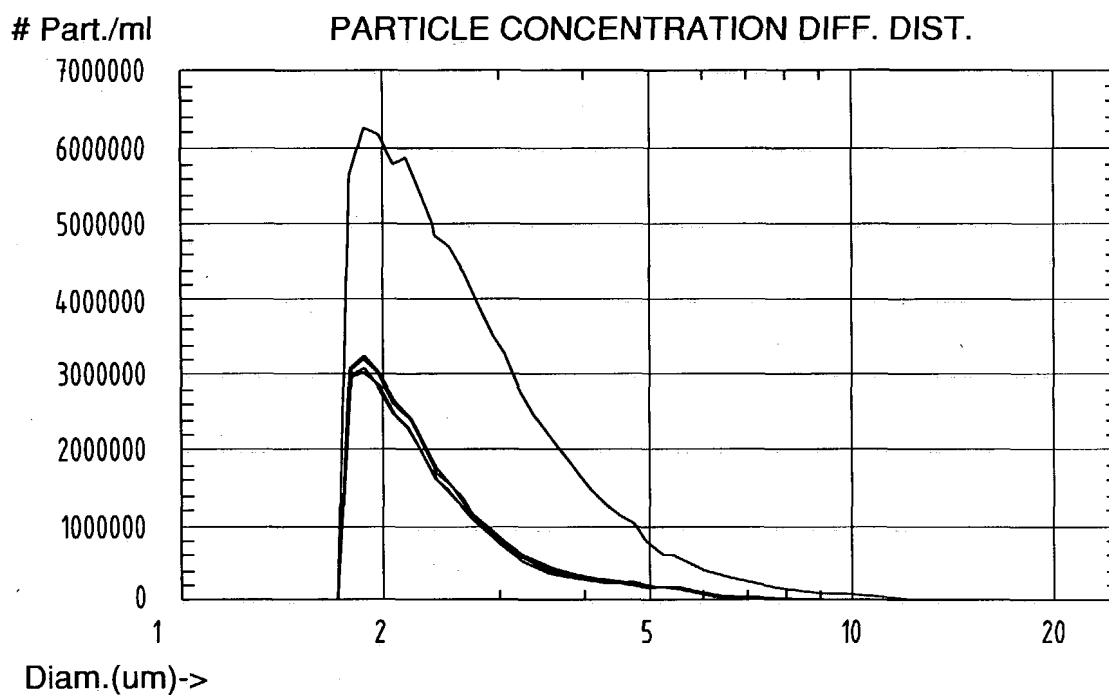


FIG.14

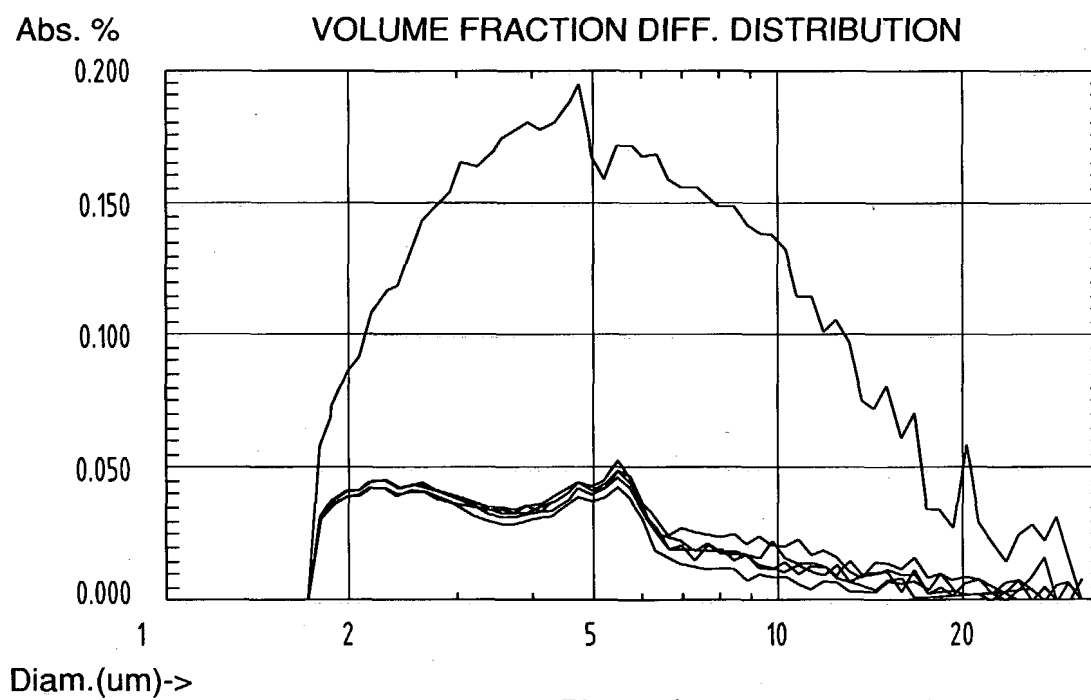


FIG.15

FIG.16

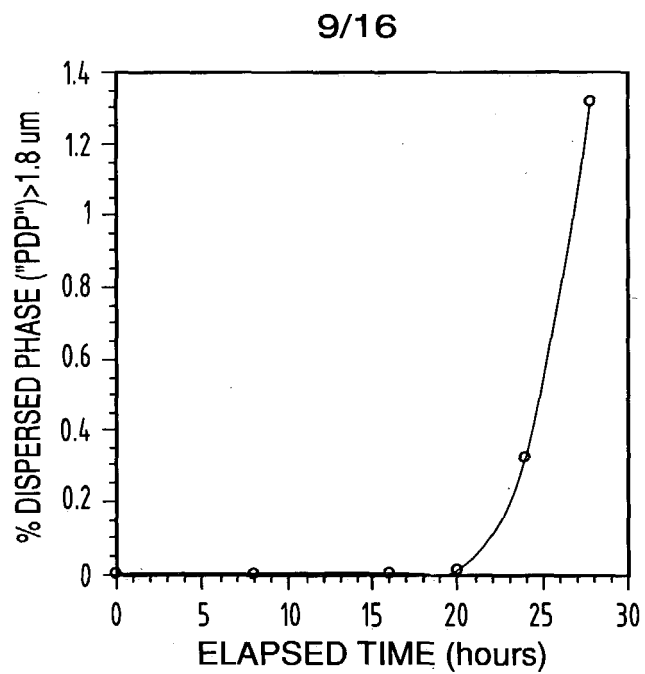


FIG.17

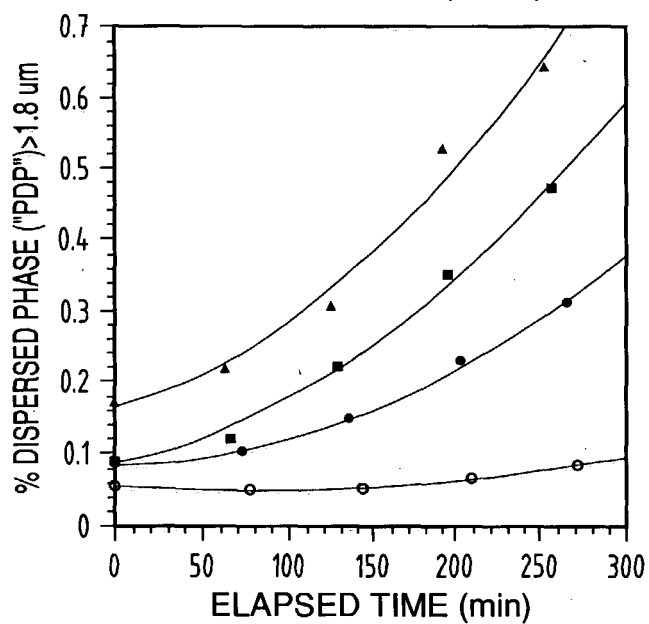
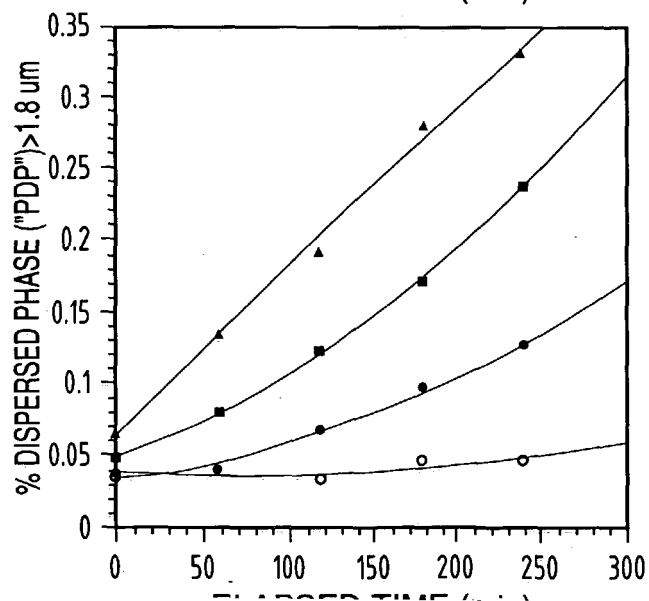
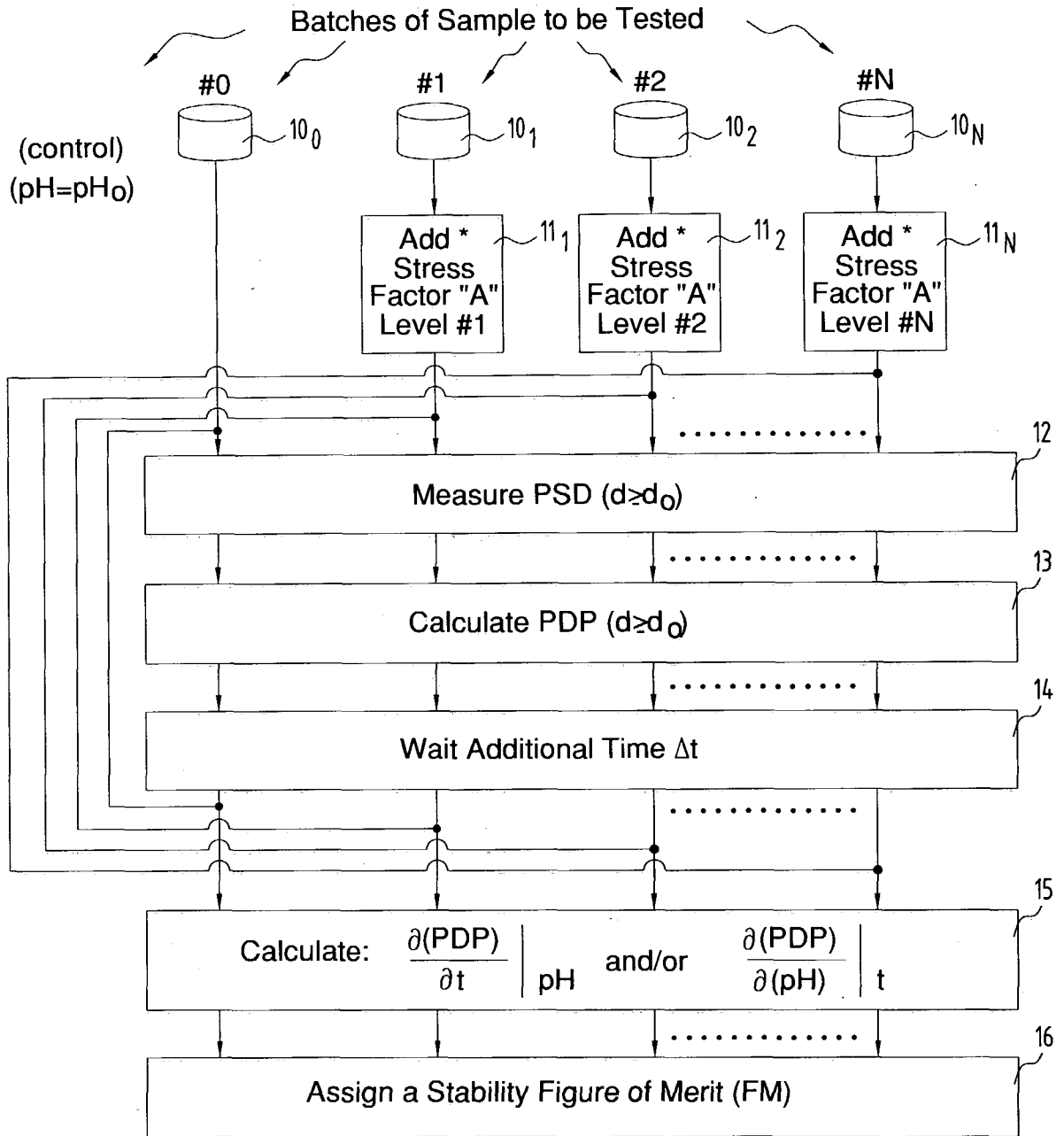


FIG.18





* Stress Factor \Rightarrow
Level # l
 $l=1,2,\dots,N$

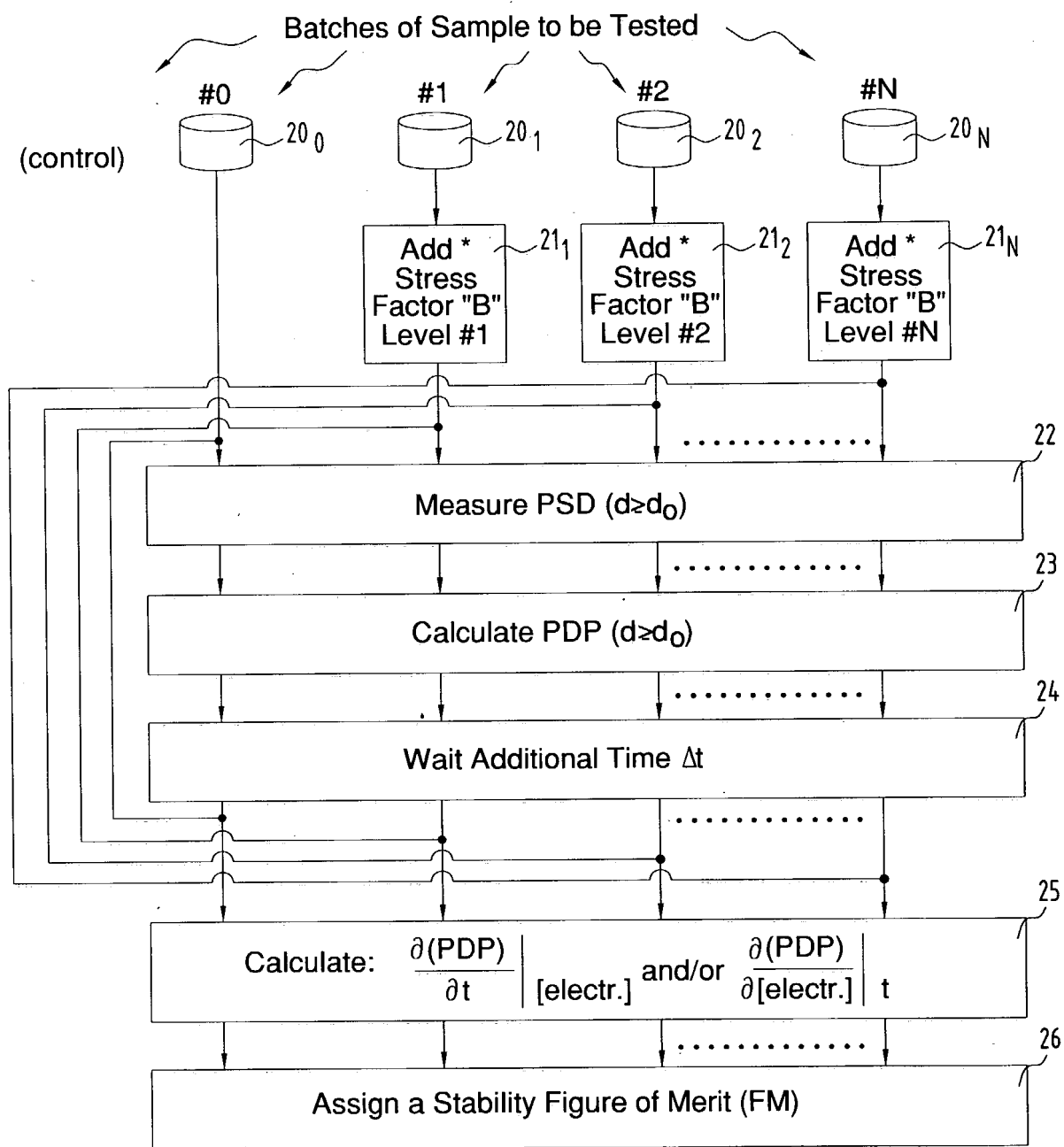
Add (Acid) _{l}
 $\text{pH}=\text{pH}_0-\Delta\text{pH}_l$

or

Add (Base) _{l}
 $\text{pH}=\text{pH}_0+\Delta\text{pH}_l$

where $[\text{Acid}]_1 < [\text{Acid}]_2 < \dots < [\text{Acid}]_N$
or $[\text{Base}]_1 < [\text{Base}]_2 < \dots < [\text{Base}]_N$
and $\Delta\text{pH}_1 < \Delta\text{pH}_2 < \dots < \Delta\text{pH}_N$

FIG.19



* Stress

Factor \Rightarrow

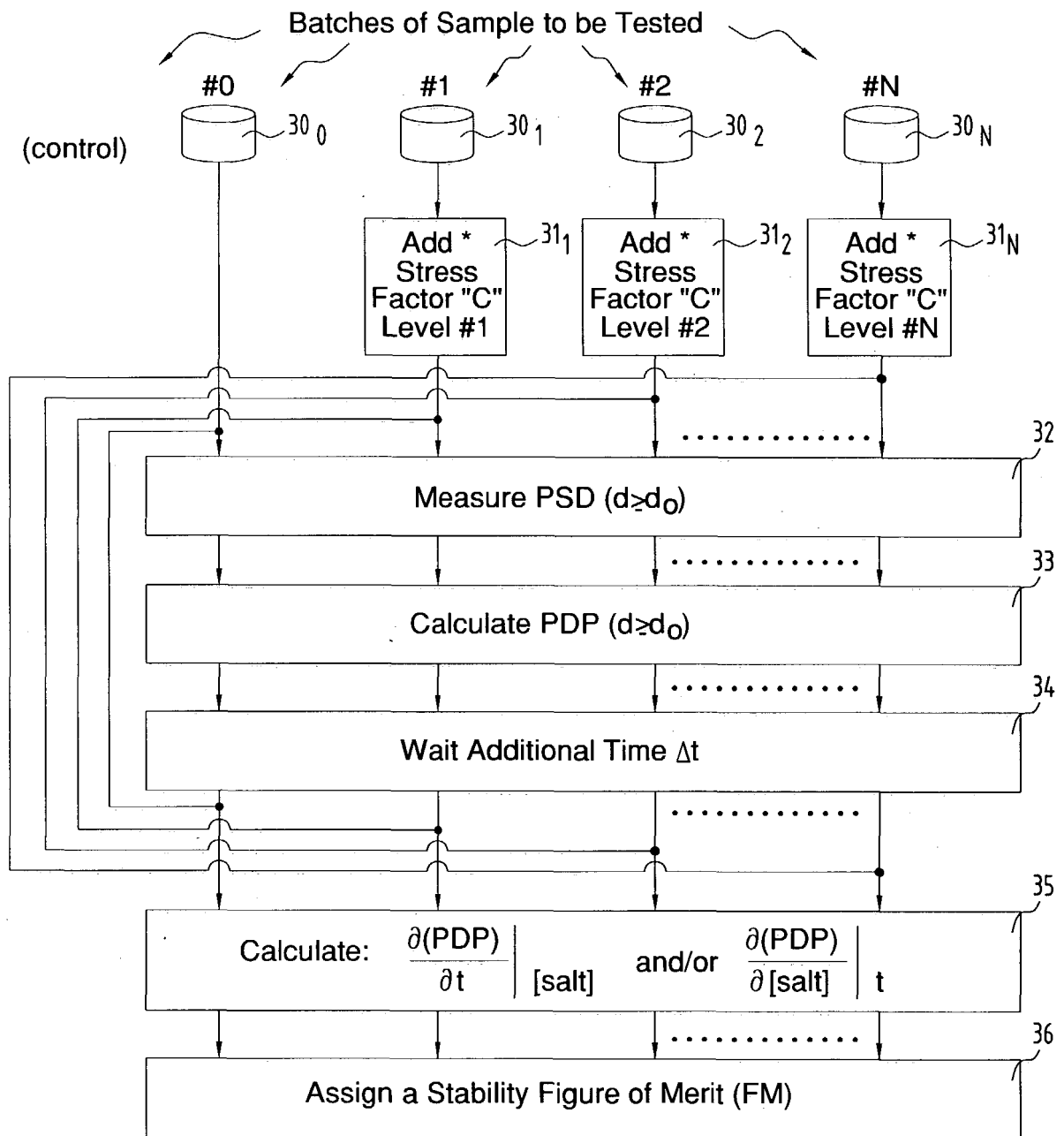
Level #i

i=1,2,...,N

Add adsorbing electrolyte, [electr.]₁
 (X⁻, X⁻ for positively charged particles)
 (X⁺, X⁺⁺ for negatively charged particles)

where [electr.]₁ < [electr.]₂ < ... < [electr.]_N

FIG.20



* Stress

Factor \Rightarrow

Level # l

$l=1,2,\dots,N$

Add non-adsorbing salt, $[\text{salt}]_l$
to screen inter-particle
electrostatic repulsions

where $[\text{salt}]_1 < [\text{salt}]_2 < \dots < [\text{salt}]_N$

FIG.21

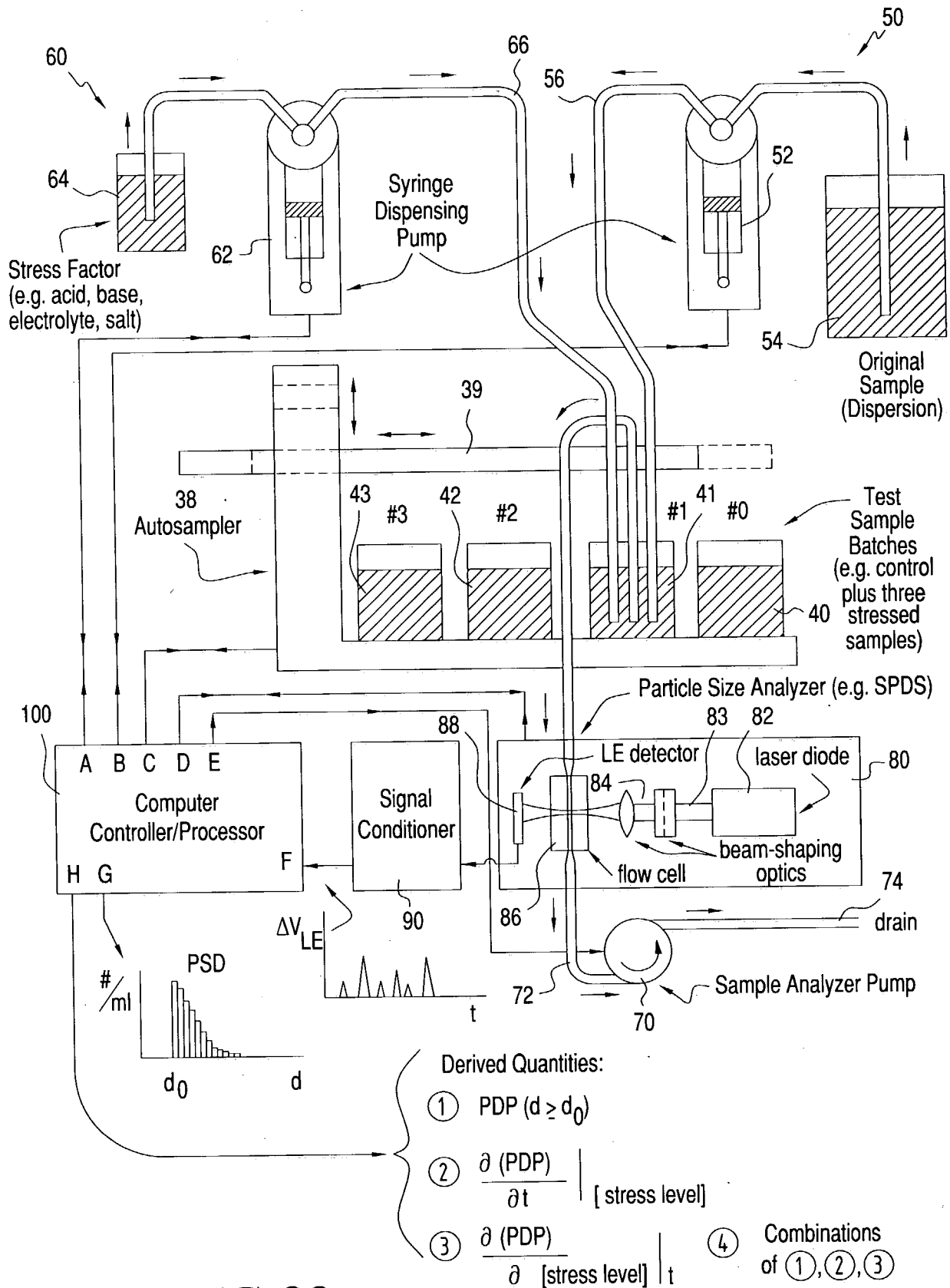


FIG. 22

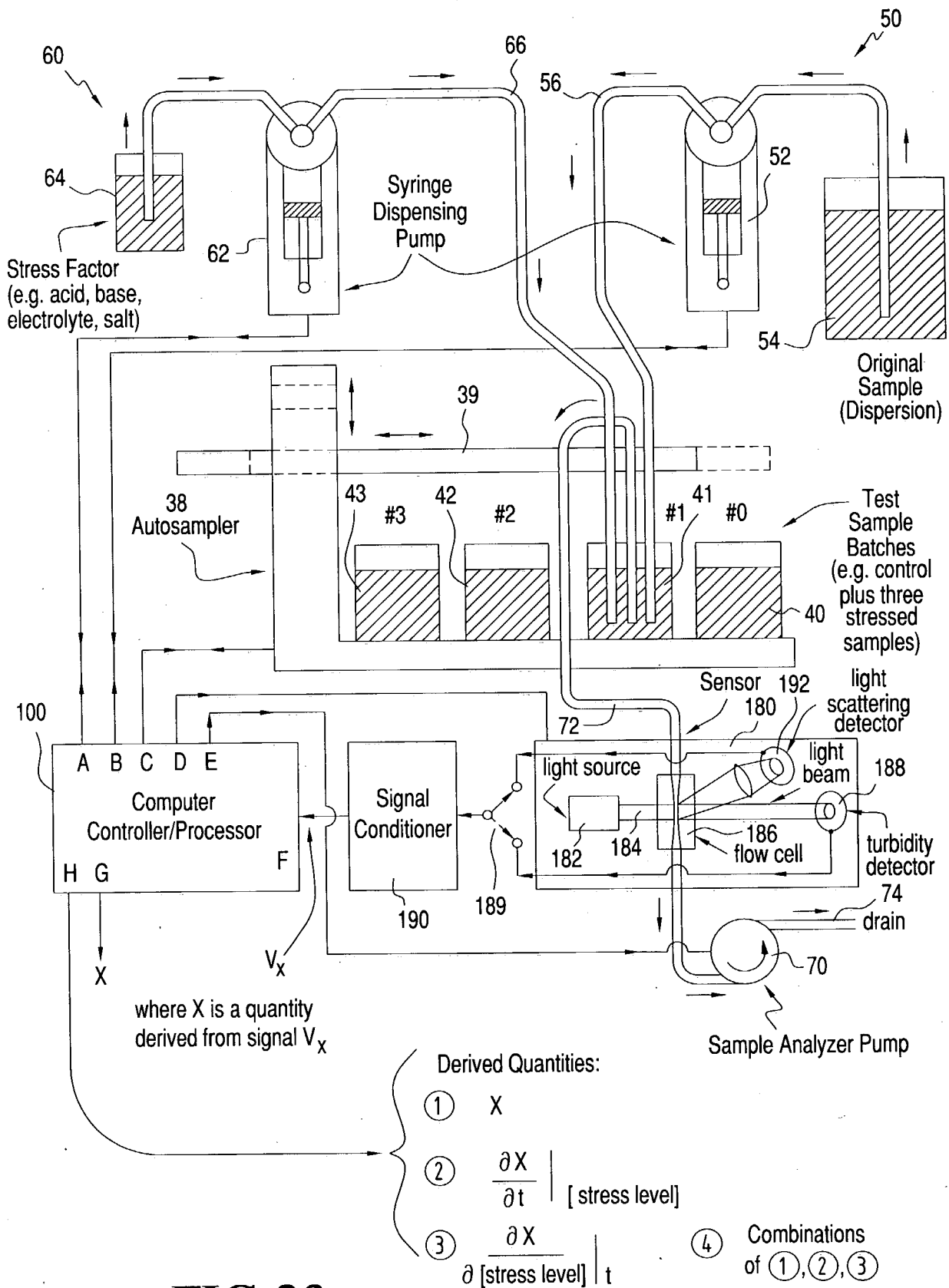


FIG. 23

FIG.24A

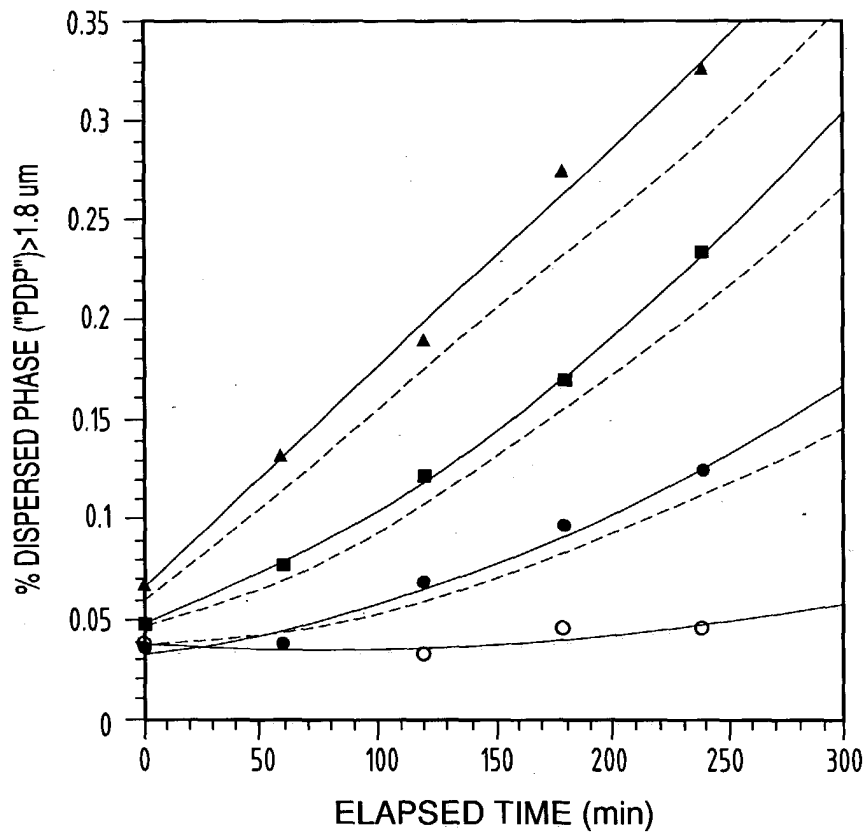


FIG.24B

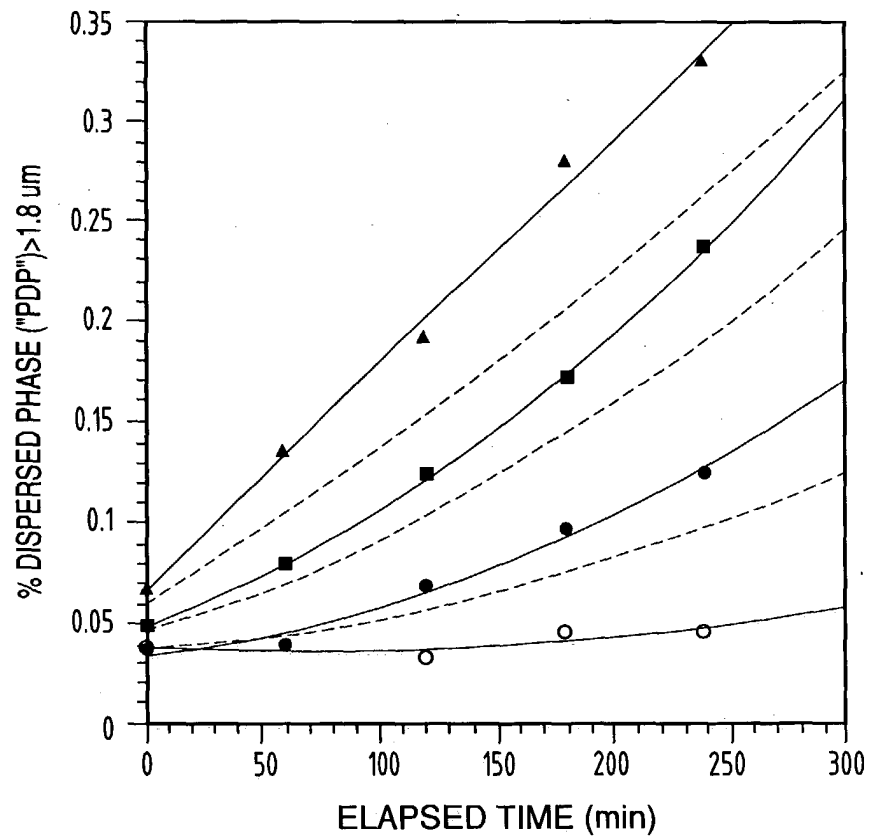


FIG.25A

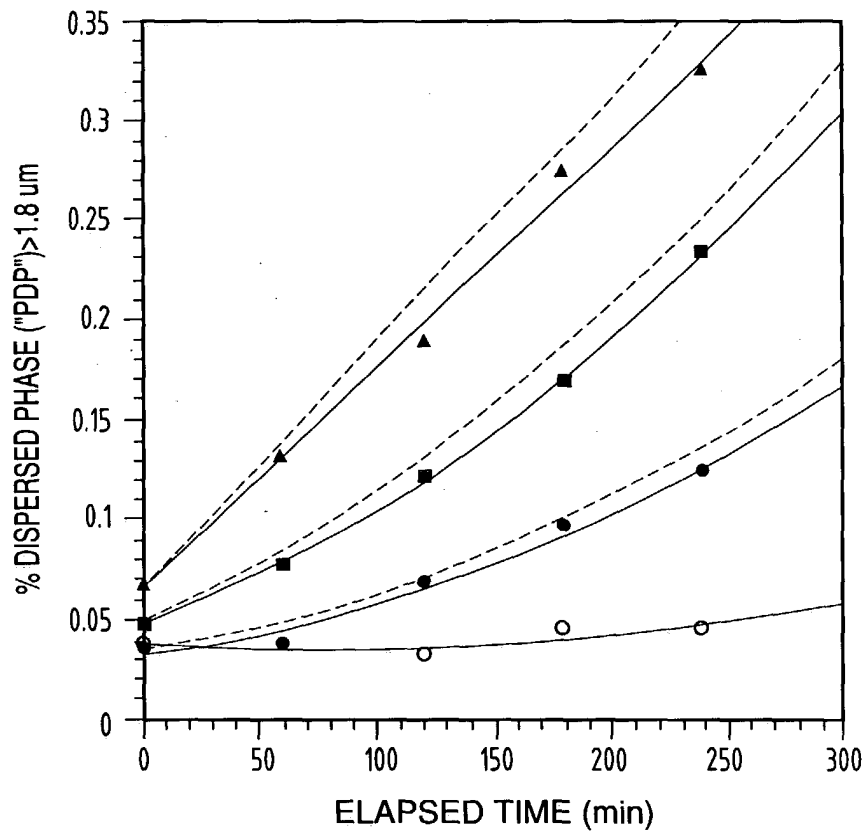


FIG.25B

